Substances That Could Be in Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;

Inorganic Contaminants, such as salts and metals, that can be naturally occurring or can result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

Pesticides and Herbicides, that may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses;

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and which can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems;

Radioactive Contaminants, that can be naturally occurring or can be the result of oil and gas production and mining activities.

Sutter Community Services District

More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Horline at (800) 426-4791.

PO Box 710

Sutter, CA 95982

PR SRT STD U.S. Postage PAID Gemini Group 22901

hable con alguien que lo entienda bien.

Recycled and Recyclable
Copyright ©2011 Gernini Group LLC
All rights reserved

CA001567-1

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o

REPORTING Year 2011

Presented By

SERVICES DISTRICT

F. SERVICES DISTRICT

Meeting the Challenge

We are once again proud to present our annual water quality report, covering all testing performed between January 1 and December 31, 2011. Over the years, we have dedicated ourselves to producing drinking water that meets all state and federal standards. We continually strive to adopt new methods for delivering the best quality drinking water to you. As new challenges to drinking water safety emerge, we remain vigilant in meeting the goals of ground water protection, water conservation, and community education while continuing to serve the needs of all our water users.

Please share with us your thoughts or concerns about the information in this report. After all, well-informed customers are our best allies. Should you ever have any questions, we are always available to assist you. For more information or questions related to your drinking water, please call Geri Goetzinger, General Manager, David Guerin, Chief Operator, or Steven Thompson, Operator, at (530) 755-1733.

Important Health Information

While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa.gov/drink/hotline.

Lead in Home Plumbing

you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by We are responsible for providing high-quality drinking water but cannot control the variety of materials used in plumbing If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

Where Does My Water Come From?

Our drinking water supply is provided entirely by ground water. Well 1 is located east of town, well 2B off of South Butte Road. We are conducting required testing before it can be added to the system in 2012. Well 3 is located north of Highway 20. The 750,000-gallon storage tank is located in the Buttes.

Water Conservation

And the second s

You can play a role in conserving water and save yourself money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve water. Here are a few tips:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- Turn off the tap when brushing your teeth.
- Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you save more than 30,000 gallons a year.
- Use your water meter to detect hidden leaks. Simply turn off all taps and water-using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.

Community Participation

You are invited to participate in our public forum and voice your concerns about your drinking water. The Board of Directors meet the first Monday of each month, beginning at 6:30 p.m., at the District office, 1880 Acacia Avenue.

Source Water Assessment

Assurce Water Assessment Plan (SWAP) has been Accompleted. This plan is an assessment of the delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination within the delineated area and a determination of the water supply's susceptibility to contamination by the identified potential sources. The sources are considered most vulnerable to the following activities not associated with any detected contaminants:

Well 1 & Well 2: Septic systems, agricultural drainage unauthorized dumping.

Well 3: Gas stations, septic systems, pesticides/fertilizer/petroleum transfer and storage.

A copy of the complete assessment may be viewed at:

California Department of Public Health Valley District 364 Knollcrest Drive Suite 100 Redding, CA 96002 Reese Crenshaw, (530) 224-4861 Sutter, CA 95982 Geri Goetzinger, (530) 755-1733

Sampling Results

During the past year, we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants. The table below shows only those contaminants that were detected in the water. The state requires us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

REGULATED SUBSTANCES	ES										
				W	Well 1	ill.	Well 3	Distribution System	1 System		
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	PHG (MCLG) [MRDLG]	AMOUNT	RANGE LOW-HIGH	AMOUNT	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Arsenic (ppb)	2011	10	0.004	7.6	NA	×	NA	NA	NA	Š	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (ppb)	2008	1,000	2,000	198	NA	141	NA	NA	NA	N.	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Chlorine (ppm)	2010	[4.0 (as Cl2)]	[4 (as Cl2)]	pond	0.70-1.35	F	0.70-1.35	NA	NA	N _s	Drinking water disinfectant added for treatment
Pluoride (ppm)	2008	2.0	<u>-</u>	0.24	NA	0.3	NA	NA	NA	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha Particle Activity (pCi/L)	2007	15	(0)	4.92	NA	2.94	» NA	NA	NA	\(\frac{\z}{\chi}\)	Erosion of natural deposits
Nitrate [as nitrate] (ppm)	2011	45	45	12	Ä	2.4	NA	NA	NA	N	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Total Coliform Bacteria [Total Coliform Rule] (# positive samples)	2011	No more than I positive monthly sample	(0)	NA	NA	NA	NA	2	NA	Yes¹	Naturally present in the environment
Turbidity (NTU)	2008	1	NA	NA NA	NA	0.25	NA	NA	NA	No	Soil runoff
Tap water samples were collected for lead and copper analyses from sample sites throughout the community	for lead and o	copper analyses from s	ample sites throu	ighout the com	munity =						ので マー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・

8.22 NA 10.2 NA No		YEAR PHG AMOUNT RANGE AMOUNT RANGE SAMPLED SMCL (MCLG) DETECTED LOW-HIGH DETECTED LOW-HIGH VIOLATION	SECONDARY SUBSTANCES Well 1 Well 2	Copper (ppb) 2011 1,300 300 390 0/20 No Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	SUBSTANCE YEAR PHG DETECTED ABOVE AL/ (UNIT OF MEASURE) SAMPLED AL (MCLG) (90TH%TILE) TOTAL SITES VIOLATION TYPICAL SOURCE
--------------------	--	--	-------------------------------------	---	--

Sulfate (ppm)

Total Dissolved Solids (ppm)

2008 2008

1,000 500

SN NS

7.0 280

X X

340 24

NA NA

% %

Runoff/leaching from natural deposits

Runoff/leaching from narural deposits; industrial wastes

UNREGULATED SUBSTANCES

111/11/15

	Sodium (ppm)	Hardness (ppm)	Boron (ppb)
	2006	2008	2003
	26.2	140	85
	NA	NA	NA
9 vant 13	25.7	180	130
	NA	NA	NA

Erosion and leaching of natural deposits Erosion and leaching of natural deposits Erosion and leaching of natural deposits

Water Main Flushing

the mains. of cleaning the interior of water distribution mains over time. Water main flushing is the process quality can deteriorate in areas of the distribution mains by sending a rapid flow of water through mains is of very high quality; however, water neighborhood. The water entering distribution istribution mains (pipes) convey water to homes, businesses, and hydrants in your

acceptable taste and smell. dissolved oxygen, disinfectant levels, and an ensures the presence of fresh water with sufficient the growth of microorganisms within distribution disinfecting power of chlorine, contributing to sediments can shield microorganisms from the taste, clarity, and color of the water. Additionally, do not pose health concerns, they can affect the and manganese. Although iron and manganese For example, flushing removes sediments like iron Flushing maintains water quality in several ways. Flushing helps remove stale water and

though uncommon, is possible. You should avoid some short-term deterioration of water quality, in your hot water tank. using hot water, to prevent sediment accumulation few minutes at full velocity before use and avoid do use the tap, allow your cold water to run for a tap water for household uses at that time. If you During flushing operations in your neighborhood,

you would like more information on our water main flushing schedule. Please contact us if you have any questions or if

What's a Cross-connection?

to be sucked out from the equipment and into the drinking drinking water line drops due to fairly routine occurrences pressure inside the drinking water line (backpressure) pressure in the equipment or system is greater than the chemicals (air conditioning systems, fire sprinkler systems, water line (backsiphonage). (main breaks, heavy water demand), causing contaminants Contamination can also occur when the pressure in the Cross-connection contamination can occur when the irrigation systems), or water sources of questionable quality. line connects to equipment (boilers), systems containing connection is formed at any point where a drinking water ross-connections that contaminate drinking water distribution lines are a major concern. A cross-

garden chemicals. Improperly installed valves in your toilet ground may be contaminated by fertilizers, cesspools, or could also be a source of cross-connection contamination. for weed killing. Garden hoses that are left lying on the in a swimming pool or when attached to a chemical sprayer home. The garden hose creates a hazard when submerged common sources of cross-connection contamination at Outside water raps and garden hoses tend to be the most

it is providing maximum protection. inspect and test each backflow preventer to make sure that eliminated or protected by a backflow preventer. We also that all potential cross-connections are identified and backflow prevention devices, are installed and maintained institutional facilities in the service area to make sure We have surveyed all industrial, commercial, and by cross-connections unless appropriate valves, known as Community water supplies are continuously jeopardized

crossconnectioncontrol/index.cfm. You can also call the http://water.epa.gov/infrastructure/drinkingwater/pws/ Safe Drinking Water Hotline at (800) 426-4791. Control Manual from the U.S. EPA's Web site at For more information, review the Cross-connection

as an indicator that other, potentially harmful, bacteria may be present. Coliforms are bacteria which are naturally present in the environment and are used remove any bacteria. Total coliform bacteria are generally not harmful themselves.

Definitions

contaminant which, if exceeded, triggers treatment or AL (Regulatory Action Level): The concentration of a

uS/cm (microsiemens per centimeter): A unit expressing other requirements that a water system must follow. the amount of electrical conductivity of a solution.

as is economically and technologically feasible. Secondary MCL (Maximum Contaminant Level): The highest appearance of drinking water. MCLs (SMCLs) are set to protect the odor, taste and level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs)

of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by MCLG (Maximum Contaminant Level Goal): The leve

contaminants. a disinfectant is necessary for control of microbial water. There is convincing evidence that addition of The highest level of a disinfectant allowed in drinking MRDL (Maximum Residual Disinfectant Level):

Goal): The level of a drinking water disinfectant below disinfectants to control microbial contaminants. MRDLGs do not reflect the benefits of the use of which there is no known or expected risk to health MRDLG (Maximum Residual Disinfectant Level

NA: Not applicable

NS: No standard

NTU is just noticeable to the average person. the clarity, or turbidity, of water. Turbidity in excess of 5 NTU (Nephelometric Turbidity Units): Measurement of

their monitoring and reporting requirements, and water MRDLs for contaminants that affect health along with PDWS (Primary Drinking Water Standard): MCLs and pCi/L (picocuries per liter): A measure of radioactivity.

expected risk to health. PHGs are set by the California in drinking water below which there is no known or PHG (Public Health Goal): The level of a contaminant

treatment requirements.

parts water (or micrograms per liter). ppb (parts per billion): One part substance per billion

ppm (parts per million): One part substance per million

to reduce the level of a contaminant in drinking water. TT (Treatment Technique): A required process intended parts water (or milligrams per liter).